



Stanley Smith & Co Plastics Ltd

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Vitrapad

CUTTING BOARDS FOR ALL INDUSTRIES

Stanley Smith & Co specialise in the production of cutting boards for all industries.

	POWER PRESS	ROLLER PRESS	CLICKING PRESS	HYDROX PRESS	FOOD PREPARATION	RESTAURANT & CATERING	ABATOIR
VITRALENE pressed polypropylene	✓		✓				
VITRALENE E extruded polypropylene		✓					
Conductive polypropylene				✓			
VITRONE E extruded rigid pvc		✓					
VITRONE KFCB semi-rigid pvc	✓		✓				
VITRATHENE HMW high Molecular weight polythene – pure white natural					✓	✓	✓
VITRATHENE HMW-full colour range					✓	✓	✓

Size range: 1000 x 1000 mm
2000 x 1000 mm
2440 x 1220 mm
3030 x 1220 mm
3050 x 1220 mm
3000 x 1500 mm
3050 x 1525 mm
6000 x 1500 mm

Thickness range extruded sheet: 5 to 12.00 mm

Thickness range pressed sheet: 3 to 75.00 mm

Custom size panels available for minimum 50 sheets plus.

Edge finishing and moulding to customer drawings.

All Vitrapad cutting boards (except KFCB) are non-toxic and suitable for direct contact with foodstuffs.

Polypropylene

a—See the *Buyers' Guide*, p. 681, for additional suppliers of specialty materials and custom compounds.

b—Terminology varies with materials: DMS is standard for thermoplastics; DMS1 for thermosetting plastics; DMS2 for elastomers; DMS3 for thermoplastic elastomers; DMS4 for thermoplastic resins; DMS5 for thermoplastic composites.

c—As conditioned to equilibrium with 50% relative humidity.

d—As measured in accordance with ASTM D4062.

e—*Pseudo* indicates that the thermomechanical and thermogravimetric components were measured on pellets or powder prior to extrusion.

f—The form of pellets or powder prior to extrusion.

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Polypropylene (cont.)									
Materials	Properties	ASTM test method	Homopolymer (cont.)				Copolymer		
			45% directional glass mat		Impact modified 40% micro-filled	ESM (conductive) 30% PAN carbon fiber	Unfilled	Unfilled, impact-modified	
			Parallel	Transverse					
Processing	1a. Melt flow (g/10 min.)	D128						0.4-4.0	
	1. Melting temperature, °C		168	168	168	168	168-178	168-188	
	2. Processing temperature range, °C (injection & extrusion)		C: 420-440	C: 420-440	E: 350-470	E: 350-470	E: 350-470	E: 400-500	
	3. Molding pressure range, 10 ³ p.s.i.		1-2	1-2			10-20	10-20	
Mechanical	4. Compression ratio				1-2		2-2.4	2-2.4	
	5. Mod (flexure) shrinkage, n/in.	D665	0.0025-0.0015	0.0025-0.0015	0.007-0.008	0.001-0.003	0.010-0.025	0.010-0.025	
	6. Tensile strength at break, p.s.i.	D226P	32,200	10,000	4,600	8,800	4,000-6,000	3,500-5,000	
	7. Elongation at break, %	D226P	2.4	2.4	4	0.5	200-500	200-700	
	8. Tensile yield strength, p.s.i.	D226P	32,200	10,000			3,000-4,000	1,600-4,000	
	9. Compressive strength (average or yield), p.s.i.	D665					3,000-6,000	3,500-6,000	
	10. Flexural strength (average or yield), p.s.i.	D790	43,180	22,785	7,000	9,000	6,000-7,000	4,000-6,000	
	11. Tensile modulus, 10 ³ p.s.i.	D226P	1,400	705	700	1,750	1,300-1,800	500-1,500	
	12. Compressive modulus, 10 ³ p.s.i.	D665					40		
	13. Flexural modulus, 10 ³ p.s.i.	D790	1,375	740	800	1,850	1,300-200	800-1,600	
Thermal	14. Heat impact ft.-lb./in. of notch (100° F. test specimen)	D256A			0.7	1.1	1.1-1.6	2.4-4.0 break	
	15. Hardness	D785					R15-98	R50-80	
	16. Coef. of linear thermal expansion, 10 ⁻⁴ in./in./°C	D226P					Shore D70-73	Shore D45-45	
	17. Softening temperature (under flex. load), °C	D646	14	22			68-95	88-95	
Physical	18. Thermal conductivity, 10 ⁻³ cal.-cm./sec.°C	C177					130-140	115-135	
	19. Specific gravity	D792	1.21	1.21	1.23	1.04	0.890-0.905	0.890-0.905	
	20. Water absorption (h-k, 24 hr. 23°C)	D570				0.12	0.03	0.03	
	21. Quenching strength (h-k, 1 min. 23°C)	D149					600	500	
SUPPLIERS:			Acid	Acid	Acid	Acid	Acid	Acid	Acid
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			Acid	Acid	Acid	Acid	Acid	Acid	Acid
			Acid	Acid	Acid	Acid	Acid	Acid	Acid

a—See the Buyer's Guide, p. 661, for additional suppliers of specialty materials and custom compounds.
 b—Tensile test method varied with material; D226P is standard for thermoplastics; D651 for rigid thermoplastic resins; D412 for elastomeric plastics; D652 for thin plastic sheeting.
 c—CT, as noted (approximately 0.1% moisture content).
 d—Flow Plastics samples are unannealed.

g—As conditioned to equilibrium with 50% relative humidity.

h—Test method in ASTM D4062.

i—Flow Plastics samples are unannealed.

Polypropylene (cont.)

Polystyrene and styrene copolymers (see also TPE)

Copolymer (Gard)			Polystyrene homopolymers					
10-20% glass fiber-reinforced	30-40% glass fiber-reinforced	10-40% talc-filled	10-40% calcium carbonate-filled	Polystyrene	High and medium flow	Heat-resistant	30% long and short glass fiber-reinforced	20% long and short glass fiber-reinforced
1a. 0.1-20	0.1-20	0.1-40	0.1-40					
1. 160-168	160-168			120-135				
2. 1:350-480	1:350-480	E: 350-470 E: 425-475	E: 350-470	E: 425-445	74-105 C: 300-400 E: 350-500 E: 350-500	100-110 C: 300-400 E: 350-500 E: 350-500	110-120 E: 400-440	E: 400-550
3. 15-20	15-20	15-20	15-20	1-3	5-20	5-20		
4. 2-2.5	2-2.5	2-2.5	2-2.5		3	3-5		
5. 0.001-0.01	0.001-0.01	0.001-0.014	0.001-0.014	0.010-0.020	0.001-0.007	0.001-0.007	0.001-0.002	0.001-0.003
6. 6000-4000	6000-10,000	3000-3775	2500-3465	3000-3800	5200-7500	6440-8200	11,000-13,000	10,000-12,000
7. 2.0-4.0	2.2-3.0	20	40-60	400-600	1.2-2.5	2.0-3.8	1-1.2	1.0-1.3
8. 3100-3800	3100-3800	2700-3500	2700-3500	3000-3400		6440-8150		
9. 5500-6600	5400-5700				12,000-13,000	13,000-14,000	18,500-17,500	18,000-17,000
10. 7000-11,000	9000-15,000	4000-6000	4000-6000		10,000-14,000	13,000-14,000	14,000-20,000	14,000-18,000
11. 3500	3500	3500	3500		350-475	450-485	1200-1300	900-1200
12. 480-480	480-480	480-480	480-480		480-480	480-500	1200	850-1100
13. 350-610	600-940	210-400	200-370	70-110	380-490	450-500	1200	
14. 0.82-2.7	0.9-3.0	0.8-4.0	0.7-2.0	1.7-3.5	0.35-0.45	0.4-0.45	0.9-3.0	0.9-2.5
15. R104-103	R104-105	R83-48	R81-49	R50-45	M60-75	M75-84	M65-85	M40-85, R119
16. 280	280	132-165	116-155	124-133	189-302	184-317	215-220	200-220
305	310	210-250	170-225	165-182	185-204	200-224	223-230	220-230
18. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
19. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
20. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
21. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
22. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
23. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
24. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
25. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
26. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
27. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
28. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
29. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
30. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
31. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
32. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
33. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
34. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
35. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
36. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
37. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
38. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
39. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
40. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
41. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
42. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
43. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
44. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
45. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600-675	600-625	450	425
46. 1.11-1.21	0.97-1.24	0.87-1.24	0.87-1.24	0.89-0.899	1.04-1.05	1.04-1.05	1.20	1.20
0.01	0.02	0.02	0.02	<0.01	0.01-0.03	0.01	0.09	0.07-0.01
					0.01-0.03	0.01	0.3	0.3
				800	600			

a—See the Buyer's Guide, p. 661, for additional suppliers of specialty materials and custom compounds.
 b—Tensile test method varied with material; D226P is standard for thermoplastics; D651 for rigid thermoplastic resins; D412 for elastomeric plastics; D652 for thin plastic sheeting.
 c—CT, as noted (approximately 0.1% moisture content).
 d—Flow Plastics samples are unannealed.

g—As conditioned to equilibrium with 50% relative humidity.

h—Test method in ASTM D4062.

i—Flow Plastics samples are unannealed.

PRINCIPAL PROPERTIES

Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Hercules	Hercules	Hercules	Hercules	Hercules	Hercules	Hercules
Pro-Fax 7523	Pro-Fax 7523N	Pro-Fax 7623	Pro-Fax 7724	Pro-Fax 7823	Pro-Fax 7824	Pro-Fax 8523
	Copolymer	Copolymer	Copolymer	Copolymer	Copolymer	
Copolymer, general purpose low temperature impact resist.	High impact strength high temperatures, chemical resistant	Medium impact strength, FDA approved for food	Heat and extraction resistant	Maximum melt strength, low temperature impact str.	Heat and extraction resistant	High impact resistance
			Profiles, pipes		Profiles, pipes	

1	Injection/Extrusion	Injection	Injection	Extrusion	Extrusion	Extrusion	Injection/Extrusion
2	<550 <288						<350 <177
3	<550 <288						<550 <288
4	<550 <288						<550 <288
5	2.1-2.4				430 221		2.1-2.4
6	0.010-0.012						0.010-0.013
7	3.6-5.0	4.0*	2.0*	0.8	0.4*	0.4	2.8-4.0
8							
9	56.13 0.898 0.898	56.88 0.910 0.910	56.25 0.900 0.900	56.19 0.899 0.899	56.25 0.900 0.900	56.19 0.899 0.899	56.25 0.900 0.900
10	30.90 1.11 1.11						30.85 1.11 1.11
11	>4.00 >2.81 >27.6	4.80 3.37 33.1	4.10 2.88 28.3	4.20 2.95 29.0	3.90 2.74 26.9	4.10 2.88 28.3	>2.90 >2.04 >20.0
12	7.00 ^b 4.92 48.3						
13	1.50 ^a 1.05 10.3						
14	9.5-11						6.00 4.22 41.4
15							
16		8.6	9.5	10.5		11	1.20 0.84 8.3
17	1.70 1.20 1.17						5.5-7.5
18	7.00 4.92 48.3						
19	2.23 1.57 1.54	2.40 1.69 1.66	2.10 1.48 1.45	2.50 1.76 1.72	2.00 1.41 1.38	2.00 1.41 1.38	1.20 0.84 0.83
20	>1.30 >0.91 >0.90	1.70 1.20 1.17					5.00 3.52 34.5
21							1.64 1.15 1.13
22	2.10 11.42 0.11	1.00 5.44 0.05	3.50 19.04 0.19	5.80 31.55 0.31	8.00 43.52 0.43	8.00 43.52 0.43	1.02 0.72 0.70
23		0.30 ^b 1.83 0.02	0.70 ^b 3.81 0.04	0.80 4.35 0.04	1.00 ^b 5.44 0.05	1.00 5.44 0.05	
24	R88 (Rockwell)		R85 (Rockwell)	R86 (Rockwell)	R80 (Rockwell)	R83 (Rockwell)	R61-69 (Rockwell)
25	1.22 4.20 0.18						
26	0.50 0.50 2.09						1.22 4.20 0.18
27	5.44 9.80						0.50 0.50 2.09
28	290 143						5.44 9.80
29							275 135
30	>190 >88						
31	>120 >48						
32	>187 >88	234 112	126 52	126 52	126 52	126 52	>190 >88
33	105/1.50		190 88	190 88	187 88	187 88	>111 >44
34							>160 >71
35	>1.0X10 ¹⁶						
36							>1.0X10 ¹⁶
37	525 20.7 20.7						
38	2.3						650 25.6 25.6
39	2.3						2.3
40	2.3						2.3
41	0.0003						2.25
42	0.0003						0.0003
43	0.0003						0.0003
44							0.0003
45	Transluc/opaque						
46	0.01-0.03						Opaque
47							0.01-0.03
48	None						
49	Attacked slowly						None
50	None						Attacked slowly
51	Very resistant						None
52	Flam						Very resistant

^a175 Fan, 79 C
^b30 Fan, 34 C

^aCond. 1
^b30 Fan, -18 C

^aCond. 1
^b30 Fan, -18 C

^aCond. 1
^b30 Fan, -18 C